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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
Application Number		10/613,623	
Filing Date		07/03/2003	
First Named Inventor		Gregory J. McRae	
Group Art Unit		3629	
Examiner Name			
Attorney Docket Number		037010-0105	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
DC	A1	6173240		Sepulveda et al.	01-09-2001	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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NON PATENT LITERATURE DOCUMENTS				
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DC	A2	Adomian, G., Stochastic system analysis, in <i>Applied Stochastic Processes</i> , edited by G. Adomian, pp. 1-17, Academic, San Diego, Calif., 1980		
DC	A3	Cukier, R.I., Fortuin, C.M., Shuler, K.E., Petschek, A.G., and Schaibly, J.H., Study of the sensitivity of coupled reaction systems to uncertainties in rate coefficients, I, Theory, <i>J. Chem. Phys.</i> , 59, 3873-3878, 1973		
DC	A4	Derwent, R.G., Treating uncertainty in models of the atmospheric chemistry of nitrogen compounds, <i>Atmos. Environ.</i> , 21, 1445-1454, 1987.		
DC	A5	Dunker, A.M., The Decoupled Direct Method for calculating sensitivity coefficients in chemical kinetics, <i>J. Chem. Phys.</i> , 81(5), 2385-2303, 1984.		
DC	A6	Gao, D, Stockwell, W.R. and Milford, J.B. "First order sensitivity and uncertainty analysis for a regional scale gas phase chemical mechanism, <i>J. Geophysical Research</i> , 100, 23, 153-23, 166, 1995.		
DC	A7	Gautschi, W., Algorithm 726: ORTHPOL—A package of routines for generating orthogonal polynomials and Gauss-type quadrature rules, <i>ACM Trans. Math. Software</i> , 20(1), 21-26, 1994.		
DC	A8	Ghanem, R.G. and Spanos, P.D., <i>Stochastic Finite Elements: A Spectral Approach</i> , Springer-Verlag, New York, 1991 p. 72-81.		

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DC	A9	Koda, M., McRae, G.J. and Seinfeld, J.H., Automatic sensitivity analysis of kinetic mechanisms, <i>Int. J. Chemical Kinetics</i> , 11, 427-444, 1979.	
DC	A10	Kramer, M.A., Rabitz, H., Calo, J.M., and Kee, R.J., Sensitivity analysis in chemical kinetics: Recent developments and computational comparisons, <i>Int. J. Chem. Kinetics</i> , 16, 559-578, 1984.	
DC	A11	Lax, M.D., Approximate solution of random differential and integral equations, <i>App. Stochastic Process</i> , edited by G. Adomian, pp. 121-134, Academic, San Diego, Calif., 1980.	
DC	A12	McKay, M.D., Beckman, R.J., and Conover, W.J., A comparison of three methods for selecting values of input variables in the analysis of output from a computer code, <i>Technometrics</i> , 21, 239-245, 1979.	
DC	A13	McRay et al., Global sensitivity analysis -- A computational implementation of the Fourier Amplitude Sensitivity Test (FAST), <i>Comp. Chem. Eng.</i> , 6, 15-25, 1982.	
DC	A14	Morgan, M.G., Henrion, M., and Small, M., <i>Uncertainty, A Guide to Dealing with Uncertainty in Quantitative Risk and Policy Analysis</i> , Cambridge University Press, New York, 1992.	
DC	A15	Papoulis, A. <i>Probability, Random Variables, and Stochastic Processes</i> , 3rd Edition, McGraw Hill, NY, 1991.	
DC	A16	Pierce, T.H. and Cukier, R.I., Global Nonlinear Sensitivity Analysis using Walsh functions, <i>J. Comput. Phys.</i> , 41, 427-443, 1981.	

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DC	A17	Pan, W., Tatang, M.A., McRae, G.J. and Prinn, R.G., "Uncertainty Analysis of Direct Radiative Forcing by Anthropogenic Sulfate Aerosols, <i>J. Geophysical Research</i> , 102, (D18), 21,915-21,924, 1997.	
DC	A18	Serrano, S.E. and Unny, T.E., Random evolution equations in hydrogeology, <i>Applied Mathematics and Computation</i> , 39, 97s-122s, 1990.	
DC	A19	Tatang, M.A., <i>Direct Incorporation of Uncertainty in Chemical and Environmental Engineering Systems</i> , Ph.D. Thesis, Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, 1995.	
DC	A20	Tatang, M.A., Pan, W., Prinn, R.G., and McRae, G.J. "An Efficient Method for Parametric Uncertainty Analysis of Numerical Geophysical Models, <i>J. Geophysical Research</i> , 102, (D18), 21,925-21,932, 1997.	
DC	A21	Wiener, N., The homogeneous chaos, <i>Amer. J. Math.</i> , 60, 897-936, 1938.	

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